

INFORMAL SEQUENCE LISTING

INFORMATION FOR SEQ ID NO:1:

(a) SEQUENCE CHARACTERISTICS:

<212> DNA
<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:1:

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ttattattgg gaccgttggt aggaataatg acttttccac tgcaagactg aagatatcag 180
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INFORMATION FOR SEQ ID NO:2:

(a) SEQUENCE CHARACTERISTICS:

<212> DNA
<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:2:

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INFORMATION FOR SEQ ID NO:3:

(a) SEQUENCE CHARACTERISTICS:

<212> DNA
<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:3:

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INFORMATION FOR SEQ ID NO:4:

(a) SEQUENCE CHARACTERISTICS:

<212> DNA

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:4:

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INFORMATION FOR SEQ ID NO:5:

(a) SEQUENCE CHARACTERISTICS:

<212> DNA

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:5:

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INFORMATION FOR SEQ ID NO:6:

(a) SEQUENCE CHARACTERISTICS:

<212> DNA

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:6:

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INFORMATION FOR SEQ ID NO:7:

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<212> DNA

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:7:

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SF 1271806 v1

INFORMATION FOR SEQ ID NO:8:

(a) SEQUENCE CHARACTERISTICS:

<212> DNA

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:8:

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INFORMATION FOR SEQ ID NO:9:

(a) SEQUENCE CHARACTERISTICS:

<212> DNA

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:9:

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INFORMATION FOR SEQ ID NO:10:

(a) SEQUENCE CHARACTERISTICS:

<212> DNA

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:10:

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INFORMATION FOR SEQ ID NO:11:

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<212> DNA

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:11:

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INFORMATION FOR SEQ ID NO:12:

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<212> DNA

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:12:

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INFORMATION FOR SEQ ID NO:13:

(a) SEQUENCE CHARACTERISTICS:

<212> DNA

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:13

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INFORMATION FOR SEQ ID NO:14:

(a) SEQUENCE CHARACTERISTICS:

<212> PRT

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:14:

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Ala Val Lys Glu Ser Asp Ala Gly Lys Tyr Tyr Cys Arg Ala Asp Asn
      20                      25                      30

Gly His Val Pro Ile Gln Ser Lys Val Val Asn Ile Pro Val Arg Ile
      35                      40                      45

Pro Val Ser Arg Pro Val Leu Thr Leu Arg Ser Pro Gly Ala Gln Ala
      50                      55                      60

Ala Val Gly Asp Leu Leu Glu Leu His Cys Glu Ala Leu Arg Gly Ser
      65                      70                      75                      80

Pro Pro Ile Leu Tyr Gln Phe Tyr His Glu Asp Val Thr Leu Gly Asn
      85                      90                      95

Ser Ser Ala Pro Ser Gly Gly Gly Ala Ser Phe Asn Leu Ser Leu Thr
      100                     105                     110

Ala Glu His Ser Gly Asn Tyr Ser Cys Glu Ala Asn Asn Gly Leu Gly
      115                     120                     125

Ala Gln Cys Ser Glu Ala Val Pro Val Ser Ile Ser Gly Pro Asp Gly
      130                     135                     140

Tyr Arg Arg Asp Leu Met Thr Ala Gly Val Leu Trp Gly Leu Phe Gly
      145                     150                     155                     160

Val Leu Gly Phe Thr Gly Val Ala Leu Leu Leu Tyr Ala Leu Phe His
      165                     170                     175

Lys Ile Ser Gly Glu Ser Ser Ala Thr Asn Glu Pro Arg Gly Ala Ser
      180                     185                     190

Arg Pro Asn Pro Gln Glu Phe Thr Tyr Ser Ser Pro Thr Pro Asp Met
      195                     200                     205

Glu Glu Leu Gln Pro Val Tyr Val Asn Val Gly Ser Val Asp Val Asp
      210                     215                     220

Val Val Tyr Ser Gln Val Trp Ser Met Gln Gln Pro Glu Ser Ser Ala
      225                     230                     235                     240

Asn Ile Arg Thr Leu Leu Glu Asn Lys Asp Ser Gln Val Ile Tyr Ser
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Ser Val Lys Lys Ser

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INFORMATION FOR SEQ ID NO:15:

(a) SEQUENCE CHARACTERISTICS:

<212> PRT

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:15:

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Glu Pro Ala Gly Trp Glu Phe Val Asn Leu Leu Arg His His Lys Ser
20 25 30

Phe Leu Ile Ala Pro Leu Cys Leu Ser Val Pro Val Ser Arg Pro Val
35 40 45

Leu Thr Leu Arg Ser Pro Gly Ala Gln Ala Ala Val Gly Asp Leu Leu
50 55 60

Glu Leu His Cys Glu Ala Leu Arg Gly Ser Pro Pro Ile Leu Tyr Gln
65 70 75 80

Phe Tyr His Glu Asp Val Thr Leu Gly Asn Ser Ser Ala Pro Ser Gly
85 90 95

Gly Gly Ala Ser Phe Asn Leu Ser Leu Thr Ala Glu His Ser Gly Asn
100 105 110

Tyr Ser Cys Glu Ala Asn Asn Gly Leu Gly Ala Gln Cys Ser Glu Ala
115 120 125

Val Pro Val Ser Ile Ser Gly Pro Asp Gly Tyr Arg Arg Asp Leu Met
130 135 140

Thr Ala Gly Val Leu Trp Gly Leu Phe Gly Val Leu Gly Phe Thr Gly
145 150 155 160

Val Ala Leu Leu Leu Tyr Ala Leu Phe His Lys Ile Ser Gly Glu Ser
165 170 175

Ser Ala Thr Asn Glu Pro Arg Gly Ala Ser Arg Pro Asn Pro Gln Glu
180 185 190

Phe Thr Tyr Ser Ser Pro Thr Pro Asp Met Glu Glu Leu Gln Pro Val
195 200 205

Tyr Val Asn Val Gly Ser Val Asp Val Asp Val Val Tyr Ser Gln Val
210 215 220

Trp Ser Met Gln Gln Pro Glu Ser Ser Ala Asn Ile Arg Thr Leu Leu
225 230 235 240

Glu Asn Lys Asp Ser Gln Val Ile Tyr Ser Ser Val Lys Lys Ser
245 250 255

INFORMATION FOR SEQ ID NO:16:

(a) SEQUENCE CHARACTERISTICS:

<212> PRT

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:16:

Met Gly Lys Lys Thr Gln Arg Ser Leu Ser Ala Glu Leu Glu Ile Pro
5 10 15

Ala Val Lys Glu Ser Asp Ala Gly Lys Tyr Tyr Cys Arg Ala Asp Gly
20 25 30

Cys Gly

INFORMATION FOR SEQ ID NO:17:

(a) SEQUENCE CHARACTERISTICS:

<212> PRT

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:17:

Asn Gly His Val Pro Ile Gln Ser Lys Val Val Asn Ile Pro Val Arg
5 10 15

Ile Pro Val Ser Arg Pro Val Leu Thr Leu Arg Ser Pro Gly Ala Gly
20 25 30

Cys Gly

INFORMATION FOR SEQ ID NO:18:

(a) SEQUENCE CHARACTERISTICS:

<212> PRT

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:18:

Gln Ala Ala Val Gly Asp Leu Leu Glu Leu His Cys Glu Ala Leu Arg
5 10 15

Gly Ser Pro Pro Ile Leu Tyr Gln Phe Tyr His Glu Asp Val Thr Gly
20 25 30

Cys Gly

INFORMATION FOR SEQ ID NO:19:

(a) SEQUENCE CHARACTERISTICS:

<212> PRT

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:19:

Leu Gly Asn Ser Ser Ala Pro Ser Gly Gly Gly Ala Ser Phe Asn Leu
5 10 15

Ser Leu Thr Ala Glu His Ser Gly Asn Tyr Ser Cys Glu Ala Asn Gly
 20 25 30

Cys Gly

INFORMATION FOR SEQ ID NO:20:

(a) SEQUENCE CHARACTERISTICS:

<212> PRT

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:20:

Asn Gly Leu Gly Ala Gln Cys Ser Glu Ala Val Pro Val Ser Ile Ser
 5 10 15

Gly Pro Asp Gly Tyr Arg Arg Asp Leu Met Thr Ala Gly Val Leu Trp
 20 25 30 -

Gly Cys Gly
 35

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1004036.1064

INFORMATION FOR SEQ ID NO:21:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:21:

GVLWGLFGV

INFORMATION FOR SEQ ID NO:22:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:22:

LLYALFHKI

INFORMATION FOR SEQ ID NO:23:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:23:

GLFGVLGFT

INFORMATION FOR SEQ ID NO:24:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:24:

VVYSQVWSM

INFORMATION FOR SEQ ID NO:25:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:25:

VLGFTGVAL

INFORMATION FOR SEQ ID NO:26:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:26:

VLWGLFGVL

INFORMATION FOR SEQ ID NO:27:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

(b) SEQUENCE DESCRIPTION: SEQ ID NO:27:

YVNVGSVDV

INFORMATION FOR SEQ ID NO:28:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

(b) SEQUENCE DESCRIPTION: SEQ ID NO:28:

MTAGVLWGL

INFORMATION FOR SEQ ID NO:29:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

(b) SEQUENCE DESCRIPTION: SEQ ID NO:29:

VLTLRSPGA

INFORMATION FOR SEQ ID NO:30:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

(b) SEQUENCE DESCRIPTION: SEQ ID NO:30:

ELQPVYVNV

INFORMATION FOR SEQ ID NO:31:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

(b) SEQUENCE DESCRIPTION: SEQ ID NO:31:

LL[~]ENKDSOV

INFORMATION FOR SEQ ID NO:32:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

(b) SEQUENCE DESCRIPTION: SEQ ID NO:32:

AQCSEAVP[~]V

INFORMATION FOR SEQ ID NO:33:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

(b) SEQUENCE DESCRIPTION: SEQ ID NO:33:

NVGSVDVDV[~]

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(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

(b) SEQUENCE DESCRIPTION: SEQ ID NO:34:

DLLELHCEA

INFORMATION FOR SEQ ID NO:35:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

(b) SEQUENCE DESCRIPTION: SEQ ID NO:35:

GLGAQCSEA

INFORMATION FOR SEQ ID NO:36:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:36:

QQPESSANI

INFORMATION FOR SEQ ID NO:37:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:37:

GVALLLYAL

INFORMATION FOR SEQ ID NO:38:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:38:

FGVLGFTGV

INFORMATION FOR SEQ ID NO:39:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:39:

SMOOPESSA

INFORMATION FOR SEQ ID NO:40:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:40:

KISGESSAT

INFORMATION FOR SEQ ID NO:41:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:41:

VLWGLFGVL

INFORMATION FOR SEQ ID NO:42:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:42:

GVLWGLFGV

INFORMATION FOR SEQ ID NO:43:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

(b) SEQUENCE DESCRIPTION: SEQ ID NO:43:

GVALLLYAL

INFORMATION FOR SEQ ID NO:44:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

(b) SEQUENCE DESCRIPTION: SEQ ID NO:44:

VVYSQVWSM

INFORMATION FOR SEQ ID NO:45:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

(b) SEQUENCE DESCRIPTION: SEQ ID NO:45:

YVNVGSVDV

INFORMATION FOR SEQ ID NO:46:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

(b) SEQUENCE DESCRIPTION: SEQ ID NO:46:

VLGFTGVAL

INFORMATION FOR SEQ ID NO:47:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:47:

LLYALFHKI

INFORMATION FOR SEQ ID NO:48:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:48:

RIPVSRPVL

INFORMATION FOR SEQ ID NO:49:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:49:

GLFGVLGFT

INFORMATION FOR SEQ ID NO:50:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:50:

KVVNIPVRI

INFORMATION FOR SEQ ID NO:51:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:51:

GVLGFTGVA

INFORMATION FOR SEQ ID NO:52:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:52:

NVGSVDVDV

INFORMATION FOR SEQ ID NO:53:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:53:

HVPIQSKVV

INFORMATION FOR SEQ ID NO:54:

- (a) SEQUENCE CHARACTERISTICS:
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YQFYHEDVT

INFORMATION FOR SEQ ID NO:55:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:55:

LGFTGVALL

INFORMATION FOR SEQ ID NO:56:

- (a) SEQUENCE CHARACTERISTICS:
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YSCEANNGL

INFORMATION FOR SEQ ID NO:57:

- (a) SEQUENCE CHARACTERISTICS:
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KISGESSAT

INFORMATION FOR SEQ ID NO:58:

- (a) SEQUENCE CHARACTERISTICS:
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MTAGVLWGL

INFORMATION FOR SEQ ID NO:59:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:59:

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INFORMATION FOR SEQ ID NO:60:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:60:

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INFORMATION FOR SEQ ID NO:61:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:61:

GFTGVALLL

INFORMATION FOR SEQ ID NO:62:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

(b) SEQUENCE DESCRIPTION: SEQ ID NO:62:

TYSSPTPDM

INFORMATION FOR SEQ ID NO:63:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:63:

QFYHEDVTL

INFORMATION FOR SEQ ID NO:64:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

(b) SEQUENCE DESCRIPTION: SEQ ID NO:64:

RIPVSRPVL

INFORMATION FOR SEQ ID NO:65:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:65:

LYQFYHEDV

INFORMATION FOR SEQ ID NO:66:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

(b) SEQUENCE DESCRIPTION: SEQ ID NO:66:

AAVGDLEEL

INFORMATION FOR SEQ ID NO:67:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

(b) SEQUENCE DESCRIPTION: SEQ ID NO:67:

LLELHCEAL

INFORMATION FOR SEQ ID NO:68:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:68:

GAQAAVGDL

INFORMATION FOR SEQ ID NO:69:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:69:

YSCĖANNGI

INFORMATION FOR SEQ ID NO:70:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

(b) SEQUENCE DESCRIPTION: SEQ ID NO:70:

VLWGLFGVL

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INFORMATION FOR SEQ ID NO:71:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:71:

MTAGVLWGL

INFORMATION FOR SEQ ID NO:72:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:72:

AQAAVGDLL

INFORMATION FOR SEQ ID NO:73:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:73:

SŠANIRTLL

INFORMATION FOR SEQ ID NO:74:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:74:

TQRSLSAEL

INFORMATION FOR SEQ ID NO:75:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:75:

SPTPDMEEL

INFORMATION FOR SEQ ID NO:76:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:76:

GSPPLYQF

INFORMATION FOR SEQ ID NO:77:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:77:

LYALFHKIS

INFORMATION FOR SEQ ID NO:78:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:78:

GYRRDLMTA

INFORMATION FOR SEQ ID NO:79:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:79:

GVALLLYAL

INFORMATION FOR SEQ ID NO:80:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:80:

KVVNIPVRI

INFORMATION FOR SEQ ID NO:81:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:81:

LLLYALFHK

INFORMATION FOR SEQ ID NO:82:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:82:

LLYALFHKI

INFORMATION FOR SEQ ID NO:83:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:40:

VLWGLFGVL

INFORMATION FOR SEQ ID NO:84:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:84:

NIRTLLENK

INFORMATION FOR SEQ ID NO:85:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:85:

QVIYSSVKK

INFORMATION FOR SEQ ID NO:86:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:86:

AVKESDAGK

INFORMATION FOR SEQ ID NO:87:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:87:

SQVIYSSVK

INFORMATION FOR SEQ ID NO:88:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:88:

DMEELQPVY

INFORMATION FOR SEQ ID NO:89:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:89:

ALLLYALFH

INFORMATION FOR SEQ ID NO:90:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:90:

GLFGVLGFT

INFORMATION FOR SEQ ID NO:91:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:91:

ALRGSPPII

INFORMATION FOR SEQ ID NO:92:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:92:

VVYSOVWSM

INFORMATION FOR SEQ ID NO:93:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:93:

GVALLLYAL

INFORMATION FOR SEQ ID NO:94:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:94:

FTGVALLLY

INFORMATION FOR SEQ ID NO:95:

(a) SEQUENCE CHARACTERISTICS:
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GLGAQCSEA

INFORMATION FOR SEQ ID NO:96:

(a) SEQUENCE CHARACTERISTICS:
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VLGFTGVAI

INFORMATION FOR SEQ ID NO:97:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:97:

LLELHCEAL

INFORMATION FOR SEQ ID NO:98:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:98:

KVVNIPVRI

INFORMATION FOR SEQ ID NO:99:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:99:

GVLWGLFGV

INFORMATION FOR SEQ ID NO:100:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:100:

MTAGVLWGL

INFORMATION FOR SEQ ID NO:101:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:101:

QVIYSSVKK

INFORMATION FOR SEQ ID NO:102:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:102:

AVKESDAGK

INFORMATION FOR SEQ ID NO:103:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:103:

ISGPDGYRR

INFORMATION FOR SEQ ID NO:104:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:104:

ESSATNEPR

INFORMATION FOR SEQ ID NO:105:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:105:

VSRPVLTLR

INFORMATION FOR SEQ ID NO:106:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:106:

DVTLGNSSA

30

10040862-10601

INFORMATION FOR SEQ ID NO:107:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:107:

NVGSVDVDV

INFORMATION FOR SEQ ID NO:108:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:108:

DVDVVYSQV

INFORMATION FOR SEQ ID NO:109:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:109:

IPVRIPVSR

INFORMATION FOR SEQ ID NO:110:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:110:

LLLYALFHK

INFORMATION FOR SEQ ID NO:111:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:111:

GVLWGLFGV

INFORMATION FOR SEQ ID NO:112:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:112:

GVALLLYAL

31

1004086 110504

INFORMATION FOR SEQ ID NO:113:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:113:

KVVNIPVRI

INFORMATION FOR SEQ ID NO:114:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:114:

AVGDLLELH

INFORMATION FOR SEQ ID NO:115:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:115:

GVLGFTGVA

INFORMATION FOR SEQ ID NO:116:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:116:

SISGPDGYR

INFORMATION FOR SEQ ID NO:117:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:117:

SQVIYSSVK

INFORMATION FOR SEQ ID NO:118:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:118:

QPESSANIR

32

10040952 110501

Variable	Mean	SD	Min	Max
Age	34.5	10.2	22	55
Gender				
Male	15.2	3.5	10	25
Female	19.8	4.1	12	30
Marital status				
Married	12.5	2.8	8	20
Single	22.0	5.2	15	35
Education				
High school	8.5	1.5	6	12
College	11.2	2.1	9	15
Postgraduate	5.3	1.8	3	10
Income				
Low	10.5	2.5	5	18
Medium	15.0	3.0	10	25
High	5.5	1.5	3	12
Occupation				
Manager	12.0	2.0	8	20
Professional	18.0	3.0	12	28
Service	10.0	2.0	5	18
Unemployed	5.0	1.5	3	10
Health status				
Good	15.0	3.0	10	25
Fair	10.0	2.0	5	18
Poor	5.0	1.5	3	10
Stress level				
Low	10.0	2.0	5	18
Medium	15.0	3.0	10	25
High	5.0	1.5	3	10
Life satisfaction				
Satisfied	12.0	2.0	8	20
Dissatisfied	18.0	3.0	12	28

<212> PEPTIDE

LELHCEALR

<212> PEPTIDE

HVPIQSKVV

<212> PEPTIDE

QVIYSSVKK

<212> PEPTIDE

AVKESDAGK

<212> PEPTIDE

LLYALFHK

<212> PEPTIDE

SQVTYSSVK

33

INFORMATION FOR SEQ ID NO:125:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:125:

NIRTLLENK

INFORMATION FOR SEQ ID NO:126:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:126:

GVLWGLFGV

INFORMATION FOR SEQ ID NO:127:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:127:

GVALLLYAL

INFORMATION FOR SEQ ID NO:128:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:128:

KVVNIPVRI

INFORMATION FOR SEQ ID NO:129:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:129:

GVLGFTGVA

INFORMATION FOR SEQ ID NO:130:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:130:

AELEIPAVK

34

10040862 110501

INFORMATION FOR SEQ ID NO:131:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:131:

SISGPDGYR

INFORMATION FOR SEQ ID NO:132:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

(b) SEQUENCE DESCRIPTION: SEQ ID NO:132:

VVYSQVWSM

INFORMATION FOR SEQ ID NO:133:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

(b) SEQUENCE DESCRIPTION: SEQ ID NO:133:

IPVRIPVSR

INFORMATION FOR SEQ ID NO:134:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

(b) SEQUENCE DESCRIPTION: SEQ ID NO:134:

QPESANIR

INFORMATION FOR SEQ ID NO:135:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

(b) SEQUENCE DESCRIPTION: SEQ ID NO:135:

GYRRDLMTA

INFORMATION FOR SEQ ID NO:136:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:136:

NVGSVDVDV

35

10940962 440604

INFORMATION FOR SEQ ID NO:137:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:137:

MTAGVLWGL

INFORMATION FOR SEQ ID NO:138:

- (a) SEQUENCE CHARACTERISTICS:
 <212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:138:

YVNVGSVDV

INFORMATION FOR SEQ ID NO:139:

- (a) SEQUENCE CHARACTERISTICS:
 <212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:139:

FTGVALLLY

INFORMATION FOR SEQ ID NO:140:

- (a) SEQUENCE CHARACTERISTICS:
 <212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:140:

NGHVPIQSK

INFORMATION FOR SEQ ID NO:141:

- (a) SEQUENCE CHARACTERISTICS:
 <212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:141:

LLLYALFHK

INFORMATION FOR SEQ ID NO:142:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:142:

SI\$GPDGYR

INFORMATION FOR SEQ ID NO:143:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

(b) SEQUENCE DESCRIPTION: SEQ ID NO:143:

VVYSQVWSM

INFORMATION FOR SEQ ID NO:144:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

(b) SEQUENCE DESCRIPTION: SEQ ID NO:144:

QVIYSSVKK

INFORMATION FOR SEQ ID NO:145:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

(b) SEQUENCE DESCRIPTION: SEQ ID NO:145:

SQVIYSSVK

INFORMATION FOR SEQ ID NO:146:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

(b) SEQUENCE DESCRIPTION: SEQ ID NO:146:

NIRTLLENK

INFORMATION FOR SEQ ID NO:147:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

(b) SEQUENCE DESCRIPTION: SEQ ID NO:147:

IPVRIPVSR

INFORMATION FOR SEQ ID NO:148:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

(b) SEQUENCE DESCRIPTION: SEQ ID NO:148:

GVLWGLFGV

INFORMATION FOR SEQ ID NO:149:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:149:

GVALLLYAL

INFORMATION FOR SEQ ID NO:150:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:150:

AVKESDAGK

INFORMATION FOR SEQ ID NO:151:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:151:

QPESANIR

INFORMATION FOR SEQ ID NO:152:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:152:

LLYALFHKI

INFORMATION FOR SEQ ID NO:153:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:153:

KVVNIPVRI

INFORMATION FOR SEQ ID NO:154:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:154:

VLWGLFGVL

INFORMATION FOR SEQ ID NO:155:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:155:

ISGPDGYRR

INFORMATION FOR SEQ ID NO:156:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:156:

SDAGKYYCR

INFORMATION FOR SEQ ID NO:157:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:157:

MTAGVLWGL

INFORMATION FOR SEQ ID NO:158:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:158:

ALLYALFH

INFORMATION FOR SEQ ID NO:159:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:159:

SKVVNIPVR

Variable	Mean	SD	Min	Max
Age	30.5	4.2	18	45
Gender	0.5	0.5	0	1
Marital status	0.3	0.5	0	1
Education	12.5	1.5	10	16
Income	1500	500	500	3000
Health status	0.8	0.2	0	1
Smoking status	0.2	0.4	0	1
Alcohol consumption	0.1	0.3	0	1
Exercise frequency	0.5	0.5	0	1
Stress level	3.5	1.5	1	5
Sleep quality	0.7	0.3	0	1
Work satisfaction	0.6	0.4	0	1
Life satisfaction	0.8	0.2	0	1
Depression score	10	5	0	30
Anxiety score	15	10	0	50
Quality of life score	70	10	50	100

(b) SEQUENCE DESCRIPTION: SEQ ID NO:160:

QPESSANIR

40

(b) SEQUENCE DESCRIPTION: SEQ ID NO:161:

QPESSANIR

(b) SEQUENCE DESCRIPTION: SEQ ID NO:162:

(b) SEQUENCE DESCRIPTION: SEQ ID NO:163:

(b) SEQUENCE DESCRIPTION: SEQ ID NO:164:

(b) SEQUENCE DESCRIPTION: SEQ ID NO:165:

QPESSANIR

INFORMATION FOR SEQ ID NO:166:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:166:

TNEPRGASR

INFORMATION FOR SEQ ID NO:167:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:167:

IPVRIPVSR

INFORMATION FOR SEQ ID NO:168:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:168:

DVTLGNSSA

INFORMATION FOR SEQ ID NO:169:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:169:

DSQVIYSSV

INFORMATION FOR SEQ ID NO:170:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:170:

ESSANIRTL

INFORMATION FOR SEQ ID NO:171:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:171:

DVDVVYSQV

INFORMATION FOR SEQ ID NO:172:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:172:

DVVYSQVWS

INFORMATION FOR SEQ ID NO:173:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

(b) SEQUENCE DESCRIPTION: SEQ ID NO:173:

ESDAGKYYC

INFORMATION FOR SEQ ID NO:174:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:174:

ELQPVYVNV

INFORMATION FOR SEQ ID NO:175:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:175:

DLLELHCEA

INFORMATION FOR SEQ ID NO:176:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

(b) SEQUENCE DESCRIPTION: SEQ ID NO:176:

NVGSVDVDV

INFORMATION FOR SEQ ID NO:177:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

(b) SEQUENCE DESCRIPTION: SEQ ID NO:177:

SVDVDVVYS

42

1004086-1064

INFORMATION FOR SEQ ID NO:178:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:178:

LYQFYHEDV

INFORMATION FOR SEQ ID NO:179:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:179:

TYSSPTPDM

INFORMATION FOR SEQ ID NO:180:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:180:

NIPVRIPVS

INFORMATION FOR SEQ ID NO:181:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:181:

VRIPVSRPV

INFORMATION FOR SEQ ID NO:182:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:182:

RIPVSRPVL

INFORMATION FOR SEQ ID NO:183:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:183:

LGFTGVALL

INFORMATION FOR SEQ ID NO:184:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:184:

AAVGDLLEL

INFORMATION FOR SEQ ID NO:185:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:185:

ESSANIRTL

INFORMATION FOR SEQ ID NO:186:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:186:

SSANIRTLL

INFORMATION FOR SEQ ID NO:187:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:187:

DGYRRDLMT

INFORMATION FOR SEQ ID NO:188:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:188:

RRDLMTAGV

INFORMATION FOR SEQ ID NO:189:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:189:

NIPVRIPVS

INFORMATION FOR SEQ ID NO:190:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:190:

EALRGSPPI

INFORMATION FOR SEQ ID NO:191:

(a) SEQUENCE CHARACTERISTICS:
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GVLWGLFGV

10040862 110601

INFORMATION FOR SEQ ID NO:192:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:192:

GVALLLYL

INFORMATION FOR SEQ ID NO:193:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:193:

VNIPVRIPV

INFORMATION FOR SEQ ID NO:194:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:194:

MTAGVLWGL

INFORMATION FOR SEQ ID NO:195:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:195:

VLWGLFGVL

INFORMATION FOR SEQ ID NO:196:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:196:

GAQA AVGDL

INFORMATION FOR SEQ ID NO:197:

- (a) SEQUENCE CHARACTERISTICS:
 <212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:197:

VVYSQVWSM

INFORMATION FOR SEQ ID NO:198:

- (a) SEQUENCE CHARACTERISTICS:
 <212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:198:

SPTPDMEEL |

INFORMATION FOR SEQ ID NO:199:

- (a) SEQUENCE CHARACTERISTICS:
 <212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:199:

| SRPNPQEFT |

INFORMATION FOR SEQ ID NO:200:

- (a) SEQUENCE CHARACTERISTICS:
 <212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:200:

| SRPVLTLRS |

INFORMATION FOR SEQ ID NO:201:

- (a) SEQUENCE CHARACTERISTICS:
 <212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:201:

| CEANNGLGA |

INFORMATION FOR SEQ ID NO:202:

- (a) SEQUENCE CHARACTERISTICS:
 <212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:202:

| LEIPAVKES |

INFORMATION FOR SEQ ID NO:203:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:203:

QEFTYSSPT |

INFORMATION FOR SEQ ID NO:204:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:204:

SEAVPVVIS |

INFORMATION FOR SEQ ID NO:205:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

(b) SEQUENCE DESCRIPTION: SEQ ID NO:205:

VDVVYSQVW

INFORMATION FOR SEQ ID NO:206:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

(b) SEQUENCE DESCRIPTION: SEQ ID NO:206:

AEHSGNYSC |

INFORMATION FOR SEQ ID NO:207:

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ASFNLSLTA |

48

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INFORMATION FOR SEQ ID NO:209:

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- (a) SEQUENCE CHARACTERISTICS:
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AAVGDLLEL

INFORMATION FOR SEQ ID NO:211:

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53

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LENKDSQVI

54

1004086 10601

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INFORMATION FOR SEQ ID NO:247:

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LGAQCSEAV

INFORMATION FOR SEQ ID NO:249:

(b) SEQUENCE DESCRIPTION: SEQ ID NO:249:

FGVLGFTGV

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VVYSQVWSM

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SGGGASFNL

INFORMATION FOR SEQ ID NO:293:

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MGKKTQRSL

INFORMATION FOR SEQ ID NO:294:

- (a) SEQUENCE CHARACTERISTICS:
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INFORMATION FOR SEQ ID NO:295:

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INFORMATION FOR SEQ ID NO:306:

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10040225 10040225

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YCRADNGHV

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ESSANIRTL

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VLTLRSPGA

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MTAGVLWGL

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68

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LRGSPPLY

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RRDLMTAGV

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SRPNPQEFT

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LRSPGAQAA

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SRPVLTLRS

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TQRSLSAEL

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LLYALFHKI

70

10040862 110501

Variable	Mean	SD	Min	Max
Age	38.5	12.5	18	65
Gender	0.5	0.5	0	1
Marital Status	0.5	0.5	0	1
Education	12.5	2.5	9	16
Income	3500	1500	1000	8000
Health Status	0.5	0.5	0	1
Exercise Frequency	0.5	0.5	0	1
Stress Level	0.5	0.5	0	1
Sleep Quality	0.5	0.5	0	1
Work Satisfaction	0.5	0.5	0	1
Life Satisfaction	0.5	0.5	0	1
Overall Well-being	0.5	0.5	0	1

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7/

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RRDLMTAGV

INFORMATION FOR SEQ ID NO:342:

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LRGSPPILY

INFORMATION FOR SEQ ID NO:343:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:343:

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INFORMATION FOR SEQ ID NO:344:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:344:

SQVIYSSVK

72

10040962 10601

INFORMATION FOR SEQ ID NO:345:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:345:

LRSPGAQAA

INFORMATION FOR SEQ ID NO:346:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:346:

AQAAVGDLL

INFORMATION FOR SEQ ID NO:347:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:347:

SRPVLTLRS

INFORMATION FOR SEQ ID NO:348:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:348:

SRPNPQEFT

INFORMATION FOR SEQ ID NO:349:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:349:

VRIPVSRPV

INFORMATION FOR SEQ ID NO:350:

(a) SEQUENCE CHARACTERISTICS:
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VLWGLFGVL

73

10040352 10601

INFORMATION FOR SEQ ID NO:351:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:351:

YQFYHEDVT

INFORMATION FOR SEQ ID NO:352:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:352:

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INFORMATION FOR SEQ ID NO:353:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:353:

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INFORMATION FOR SEQ ID NO:354:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:354:

LLYALFHKI

INFORMATION FOR SEQ ID NO:355:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO: 355

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INFORMATION FOR SEQ ID NO: 356

(a) SEQUENCE CHARACTERISTICS:
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74

100440353 110501

INFORMATION FOR SEQ ID NO:357:

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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:357:

ALRGSPPII

INFORMATION FOR SEQ ID NO:358:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:358:

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INFORMATION FOR SEQ ID NO:359:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:359:

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INFORMATION FOR SEQ ID NO:360:

- (a) SEQUENCE CHARACTERISTICS:
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INFORMATION FOR SEQ ID NO:361:

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RPNPQEFTY

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INFORMATION FOR SEQ ID NO:363:

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SPTPDMEEL

INFORMATION FOR SEQ ID NO:364:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:364:

GSVDVDVVY

INFORMATION FOR SEQ ID NO:365:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:365:

APSGGGASF

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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:366:

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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:367:

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ESSANIRTL

INFORMATION FOR SEQ ID NO:374:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:374:

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INFORMATION FOR SEQ ID NO:375:

(a) SEQUENCE CHARACTERISTICS:
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INFORMATION FOR SEQ ID NO:376:

(a) SEQUENCE CHARACTERISTICS:
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INFORMATION FOR SEQ ID NO:377:

(a) SEQUENCE CHARACTERISTICS:
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INFORMATION FOR SEQ ID NO:378:

(a) SEQUENCE CHARACTERISTICS:
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INFORMATION FOR SEQ ID NO:379:

(a) SEQUENCE CHARACTERISTICS:
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INFORMATION FOR SEQ ID NO:380:

(a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:382:

LENKDSQVI

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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:383:

SSANIRTL

INFORMATION FOR SEQ ID NO:384:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:384:

AQAAVGDLL

INFORMATION FOR SEQ ID NO:385:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:385:

GFTGVALL

INFORMATION FOR SEQ ID NO:386:

- (a) SEQUENCE CHARACTERISTICS:
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KDSQVIYSS

INFORMATION FOR SEQ ID NO:387:

- (a) SEQUENCE CHARACTERISTICS:
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KVVNIPVRI

INFORMATION FOR SEQ ID NO:394:

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MTAGVLWGL

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INFORMATION FOR SEQ ID NO:396:

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SGGGASFNL

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(a) SEQUENCE CHARACTERISTICS:
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10040862 110601
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INFORMATION FOR SEQ ID NO:415:

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GVALLLYAL

INFORMATION FOR SEQ ID NO:418:

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(a) SEQUENCE CHARACTERISTICS:
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AQAAVGDLL

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GHVPIQŠKV

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INFORMATION FOR SEQ ID NO:423:

(a) SEQUENCE CHARACTERISTICS:
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INFORMATION FOR SEQ ID NO:424:

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INFORMATION FOR SEQ ID NO:426:

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(b) SEQUENCE DESCRIPTION: SEQ ID NO:426:

LGFTGVALL

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(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:427:

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INFORMATION FOR SEQ ID NO:428:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:428:

LLELHCEAL

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(a) SEQUENCE CHARACTERISTICS:
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YSCEANNGL

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(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:431:

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INFORMATION FOR SEQ ID NO:432:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:432:

GPDGYRRDL

INFORMATION FOR SEQ ID NO:433:

(a) SEQUENCE CHARACTERISTICS:
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MTAGVLWGL

INFORMATION FOR SEQ ID NO:434:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:434:

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INFORMATION FOR SEQ ID NO:435:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:435:

GVALLLYAL

INFORMATION FOR SEQ ID NO:436:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO: :

ESSANIRTL

436

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10040822 110501

INFORMATION FOR SEQ ID NO:437:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:437:

SPTPDMEEL

INFORMATION FOR SEQ ID NO:438:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:438:

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INFORMATION FOR SEQ ID NO:439:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:439:

VVYSQVWSM

INFORMATION FOR SEQ ID NO:440:

(a) SEQUENCE CHARACTERISTICS:
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INFORMATION FOR SEQ ID NO:441:

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INFORMATION FOR SEQ ID NO:442:

(a) SEQUENCE CHARACTERISTICS:
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(a) SEQUENCE CHARACTERISTICS:
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(a) SEQUENCE CHARACTERISTICS:
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INFORMATION FOR SEQ ID NO:448:

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INFORMATION FOR SEQ ID NO:449:

(a) SEQUENCE CHARACTERISTICS:
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INFORMATION FOR SEQ ID NO:450:

(a) SEQUENCE CHARACTERISTICS:
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LGFTGVALL

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10040852 110504

INFORMATION FOR SEQ ID NO:451:

(a) SEQUENCE CHARACTERISTICS:
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RIPVSRPVL

INFORMATION FOR SEQ ID NO:452:

(a) SEQUENCE CHARACTERISTICS:
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LLELHCEAL

INFORMATION FOR SEQ ID NO:453:

(a) SEQUENCE CHARACTERISTICS:
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YSCEANNGL

INFORMATION FOR SEQ ID NO:454:

(a) SEQUENCE CHARACTERISTICS:
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ESSANIRTL

INFORMATION FOR SEQ ID NO:455:

(a) SEQUENCE CHARACTERISTICS:
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GAQAAVGDL

INFORMATION FOR SEQ ID NO:456:

(a) SEQUENCE CHARACTERISTICS:
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INFORMATION FOR SEQ ID NO:457:

(a) SEQUENCE CHARACTERISTICS:
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AAVGDLEL

INFORMATION FOR SEQ ID NO:458:

(a) SEQUENCE CHARACTERISTICS:
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INFORMATION FOR SEQ ID NO:459:

(a) SEQUENCE CHARACTERISTICS:
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VLGFTGVAL

INFORMATION FOR SEQ ID NO:460:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:460:

SGGGASFNL

INFORMATION FOR SEQ ID NO:461:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:461:

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INFORMATION FOR SEQ ID NO:462:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:462:

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INFORMATION FOR SEQ ID NO:463:

- (a) SEQUENCE CHARACTERISTICS:
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VSISGPDGY

INFORMATION FOR SEQ ID NO:465:

- (a) SEQUENCE CHARACTERISTICS:
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GSVDVDVVY

INFORMATION FOR SEQ ID NO:466:

- (a) SEQUENCE CHARACTERISTICS:
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SPPILYQFY

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INFORMATION FOR SEQ ID NO:467:

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RPNPQEFTY

INFORMATION FOR SEQ ID NO:468:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

(b) SEQUENCE DESCRIPTION: SEQ ID NO:468:

CEANNGGLGA

INFORMATION FOR SEQ ID NO:469:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:469:

AEHSGNYSC

INFORMATION FOR SEQ ID NO:470:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:470:

EELQPYYVN

INFORMATION FOR SEQ ID NO:471:

(a) SEQUENCE CHARACTERISTICS:
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(b) SEQUENCE DESCRIPTION: SEQ ID NO:471:

FTGVALLLY

Parameter	Unit	Value
Initial concentration	mg/L	100
Final concentration	mg/L	10
Volume of solution	L	1
Volume of adsorbent	g	10
Temperature	°C	25
Time	h	24
pH		7
Shaking speed	rpm	150
Batch size	g	100
Adsorbent type		Activated carbon
Adsorbent surface area	m ² /g	1000
Adsorbent pore volume	cm ³ /g	0.5
Adsorbent density	g/cm ³	1.5
Adsorbent particle size	µm	100
Adsorbent batch		1
Adsorbent lot		1
Adsorbent grade		1
Adsorbent manufacturer		1
Adsorbent country of origin		1
Adsorbent date of manufacture		1
Adsorbent date of receipt		1
Adsorbent date of use		1
Adsorbent date of disposal		1
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- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

VPIQSKVVN

INFORMATION FOR SEQ ID NO:810:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

OPVYVNVGS

INFORMATION FOR SEQ ID NO:811:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

IPAVKESDA

INFORMATION FOR SEQ ID NO:812:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

SSANIRTL

INFORMATION FOR SEQ ID NO:813:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

ESSANIRTL

INFORMATION FOR SEQ ID NO:814:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

YSCEANNGL

INFORMATION FOR SEQ ID NO:815:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

DSQVIYSSV

INFORMATION FOR SEQ ID NO:816:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

RSPGAQAAV

INFORMATION FOR SEQ ID NO:817:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

ASRPNPQEF

INFORMATION FOR SEQ ID NO:818:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

WGLFGVLGF

INFORMATION FOR SEQ ID NO:819:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

VSISGPDGY

INFORMATION FOR SEQ ID NO:820:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

TAGVLWGLF

INFORMATION FOR SEQ ID NO:821:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

SKVVNI[~]PVR

INFORMATION FOR SEQ ID NO:822:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

VKESDAGKY

INFORMATION FOR SEQ ID NO:823:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

NKDSQVIYS

INFORMATION FOR SEQ ID NO:824:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

KKTQR[~]SLSA

INFORMATION FOR SEQ ID NO:825:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

HKISGESSA

INFORMATION FOR SEQ ID NO:826:

(a) SEQUENCE CHARACTERISTICS: 826
<212> PEPTIDE

GKYYCRADN

INFORMATION FOR SEQ ID NO:827:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

GKKTQRSLS

INFORMATION FOR SEQ ID NO:828:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

TNEPRGASR

INFORMATION FOR SEQ ID NO:829:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

ESSATNEPR

INFORMATION FOR SEQ ID NO:830:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

VSRPVLTLR

INFORMATION FOR SEQ ID NO:831:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

SISGPDGYR

INFORMATION FOR SEQ ID NO:832:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

IPVRIPVSR

INFORMATION FOR SEQ ID NO:833:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

ISGPDGYRR

INFORMATION FOR SEQ ID NO:834:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

QPESANIR

INFORMATION FOR SEQ ID NO:835:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

LLLYALFHK

INFORMATION FOR SEQ ID NO:836:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

DMEELQVY

INFORMATION FOR SEQ ID NO:837:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

SQVIYSSVK

INFORMATION FOR SEQ ID NO:838:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

VLWGLFGVL

INFORMATION FOR SEQ ID NO:839:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

VLGFTGVAL

INFORMATION FOR SEQ ID NO:840:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

LLELHCEAL

INFORMATION FOR SEQ ID NO:841:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

MGKKTQRSLSAELEIPAVKESDAGKYCRA

INFORMATION FOR SEQ ID NO:842:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

PAVKESDAGKYCRADNGHVPIQSKVVNIP

INFORMATION FOR SEQ ID NO:843:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

DNGHVPIQSKVVNI PVRI PVSRPVLT LRSP

INFORMATION FOR SEQ ID NO:844:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

VRIPVSRPVLT LRSPGAQA AVGD LLELHCE

INFORMATION FOR SEQ ID NO:845:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

GAQA AVGD LLELHCEALRGSPPI LYQFYHE

INFORMATION FOR SEQ ID NO:846:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

ALRGSPPI LYQFYHEDVTLGNSSAPSGGGA

INFORMATION FOR SEQ ID NO:847:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

DVTLGNSSAPSGGGASFNLSLTAEHSGNYS

INFORMATION FOR SEQ ID NO:848:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

BFNLSLTAEHSGNYSCEANGLGAQCSEAV

INFORMATION FOR SEQ ID NO:849:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

CEANGLGAQCSEAVPVSI SGPDGYRRDLM

INFORMATION FOR SEQ ID NO:850:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

PVSISGPDGYRRDLMTAGVLWGLFGVLGFT

INFORMATION FOR SEQ ID NO:851:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

TAGVLWGLFGVLGFTGVALLLYALFHKISG

INFORMATION FOR SEQ ID NO:852:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

GVALLLYALFHKISGESSATNEPRGASRPN

INFORMATION FOR SEQ ID NO:853:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

ESSATNEPRGASRPNPQEFTYSSPTPDME

INFORMATION FOR SEQ ID NO:854:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

PQEFTYSSPTPDMEELQPVYVNVGSVDVDV

INFORMATION FOR SEQ ID NO:855:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

LQPVYVNVGSVDVDVVYSQVWSMQQPESSA

INFORMATION FOR SEQ ID NO:856:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

VYSQVWSMQQPESSANIRTLLLENKDSQVIY

INFORMATION FOR SEQ ID NO:857:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

NIRTLLLENKDSQVIYSSVKKS

INFORMATION FOR SEQ ID NO:858:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

KVNIIPVRIPVSRPVLTLRSPGAQAAVGDLLLELHCEALR

INFORMATION FOR SEQ ID NO:859:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

LGAQCSEAVPVSIISGPDGYRRDLM

INFORMATION FOR SEQ ID NO:860:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

ELQPVYVNVGSVDVDV

INFORMATION FOR SEQ ID NO:861:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

GPDGYRRDLMTAGVLWGLFGVLGFTGVALLLYALFHKI

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INFORMATION FOR SEQ ID NO:862:

(a) SEQUENCE CHARACTERISTICS:

<212> PRT

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:862:

Met Leu Leu Trp Ala Ser Leu Leu Ala Phe Ala Pro Val Cys Gly Gln
5 10 15
Ser Ala Ala Ala His Lys Pro Val Ile Ser Val His Pro Pro Trp Thr
20 25 30
Thr Phe Phe Lys Gly Glu Arg Val Thr Leu Thr Cys Asn Gly Phe Gln
35 40 45
Phe Tyr Ala Thr Glu Lys Thr Thr Trp Tyr His Arg His Tyr Trp Gly
50 55 60
Glu Lys Leu Thr Leu Thr Pro Gly Asn Thr Leu Glu Val Arg Glu Ser
65 70 75 80
Gly Leu Tyr Arg Cys Gln Ala Arg Gly Ser Pro Arg Ser Asn Pro Val
85 90 95
Arg Leu Leu Phe Ser Ser Asp Ser Leu Ile Leu Gln Ala Pro Tyr Ser
100 105 110
Val Phe Glu Gly Asp Thr Leu Val Leu Arg Cys His Arg Arg Arg Lys
115 120 125
Glu Lys Leu Thr Ala Val Lys Tyr Thr Trp Asn Gly Asn Ile Leu Ser
130 135 140
Ile Ser Asn Lys Ser Trp Asp Leu Leu Ile Pro Gln Ala Ser Ser Asn
145 150 155 160
Asn Asn Gly Asn Tyr Arg Cys Ile Gly Tyr Gly Asp Glu Asn Asp Val
165 170 175
Phe Arg Ser Asn Phe Lys Ile Ile Lys Ile Gln Glu Leu Phe Pro His
180 185 190
Pro Glu Leu Lys Ala Thr Asp Ser Gln Pro Thr Glu Gly Asn Ser Val
195 200 205
Asn Leu Ser Cys Glu Thr Gln Leu Pro Pro Glu Arg Ser Asp Thr Pro
210 215 220
Leu His Phe Asn Phe Phe Arg Asp Gly Glu Val Ile Leu Ser Asp Trp
225 230 235 240
Ser Thr Tyr Pro Glu Leu Gln Leu Pro Thr Val Trp Arg Glu Asn Ser
245 250 255
Gly Ser Tyr Trp Cys Gly Ala Glu Thr Val Arg Gly Asn Ile His Lys

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260										265					270				
His	Ser	Pro	Ser	Leu	Gln	Ile	His	Val	Gln	Arg	Ile	Pro	Val	Ser	Gly				
		275						280					285						
Val	Leu	Leu	Glu	Thr	Gln	Pro	Ser	Gly	Gly	Gln	Ala	Val	Glu	Gly	Glu				
	290					295					300								
Met	Leu	Val	Leu	Val	Cys	Ser	Val	Ala	Glu	Gly	Thr	Gly	Asp	Thr	Thr				
305					310					315					320				
Phe	Ser	Trp	His	Arg	Glu	Asp	Met	Gln	Glu	Ser	Leu	Gly	Arg	Lys	Thr				
				325					330					335					
Gln	Arg	Ser	Leu	Arg	Ala	Glu	Leu	Glu	Leu	Pro	Ala	Ile	Arg	Gln	Ser				
			340					345						350					
His	Ala	Gly	Gly	Tyr	Tyr	Cys	Thr	Ala	Asp	Asn	Ser	Tyr	Gly	Pro	Val				
		355					360						365						
Gln	Ser	Met	Val	Leu	Asn	Val	Thr	Val	Arg	Glu	Thr	Pro	Gly	Asn	Arg				
		370				375						380							
Asp	Gly	Leu	Val	Ala	Ala	Gly	Ala	Thr	Gly	Gly	Leu	Leu	Ser	Ala	Leu				
385					390					395					400				
Leu	Leu	Ala	Val	Ala	Leu	Leu	Phe	His	Cys	Trp	Arg	Arg	Arg	Lys	Ser				
				405					410					415					
Gly	Val	Gly	Phe	Leu	Gly	Asp	Glu	Thr	Arg	Leu	Pro	Pro	Ala	Pro	Gly				
			420					425					430						
Pro	Gly	Glu	Ser	Ser	His	Ser	Ile	Cys	Pro	Ala	Gln	Val	Glu	Leu	Gln				
		435					440					445							
Ser	Leu	Tyr	Val	Asp	Val	His	Pro	Lys	Lys	Gly	Asp	Leu	Val	Tyr	Ser				
	450					455					460								
Glu	Ile	Gln	Thr	Thr	Gln	Leu	Gly	Glu	Glu	Glu	Glu	Ala	Asn	Thr	Ser				
465					470				475					480					
Arg	Thr	Leu	Leu	Glu	Asp	Lys	Asp	Val	Ser	Val	Val	Tyr	Ser	Glu	Val				
				485				490						495					
Lys	Thr	Gln	His	Pro	Asp	Asn	Ser	Ala	Gly	Lys	Ile	Ser	Ser	Lys	Asp				
		500						505						510					
Glu	Glu	Ser																	
		515																	

INFORMATION FOR SEQ ID NO:863:

(a) SEQUENCE CHARACTERISTICS:

<212> PRT

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:863:

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Met	Leu	Leu	Trp	Val	Ile	Leu	Leu	Val	Leu	Ala	Pro	Val	Ser	Gly	Gln	5	10	15
Phe	Ala	Arg	Thr	Pro	Arg	Pro	Ile	Ile	Phe	Leu	Gln	Pro	Pro	Trp	Thr	20	25	30
Thr	Val	Phe	Gln	Gly	Glu	Arg	Val	Thr	Leu	Thr	Cys	Lys	Gly	Phe	Arg	35	40	45
Phe	Tyr	Ser	Pro	Gln	Lys	Thr	Lys	Trp	Tyr	His	Arg	Tyr	Leu	Gly	Lys	50	55	60
Glu	Ile	Leu	Arg	Glu	Thr	Pro	Asp	Asn	Ile	Leu	Glu	Val	Gln	Glu	Ser	65	70	75
Gly	Glu	Tyr	Arg	Cys	Gln	Ala	Gln	Gly	Ser	Pro	Leu	Ser	Ser	Pro	Val	85	90	95
His	Leu	Asp	Phe	Ser	Ser	Ala	Ser	Leu	Ile	Leu	Gln	Ala	Pro	Leu	Ser	100	105	110
Val	Phe	Glu	Gly	Asp	Ser	Val	Val	Leu	Arg	Cys	Arg	Ala	Lys	Ala	Glu	115	120	125
Val	Thr	Leu	Asn	Asn	Thr	Ile	Tyr	Lys	Asn	Asp	Asn	Val	Leu	Ala	Phe	130	135	140
Leu	Asn	Lys	Arg	Thr	Asp	Phe	His	Ile	Pro	His	Ala	Cys	Leu	Lys	Asp	145	150	155
Asn	Gly	Ala	Tyr	Arg	Cys	Thr	Gly	Tyr	Lys	Glu	Ser	Cys	Cys	Pro	Val	165	170	175
Ser	Ser	Asn	Thr	Val	Lys	Ile	Gln	Val	Gln	Glu	Pro	Phe	Thr	Arg	Pro	180	185	190
Val	Leu	Arg	Ala	Ser	Ser	Phe	Gln	Pro	Ile	Ser	Gly	Asn	Pro	Val	Thr	195	200	205
Leu	Thr	Cys	Glu	Thr	Gln	Leu	Ser	Leu	Glu	Arg	Ser	Asp	Val	Pro	Leu	210	215	220
Arg	Phe	Arg	Phe	Phe	Arg	Asp	Asp	Gln	Thr	Leu	Gly	Leu	Gly	Trp	Ser	225	230	235
Leu	Ser	Pro	Asn	Phe	Gln	Ile	Thr	Ala	Met	Trp	Ser	Lys	Asp	Ser	Gly	245	250	255
Phe	Tyr	Trp	Cys	Lys	Ala	Ala	Thr	Met	Pro	His	Ser	Val	Ile	Ser	Asp	260	265	270
Ser	Pro	Arg	Ser	Trp	Ile	Gln	Val	Gln	Ile	Pro	Ala	Ser	His	Pro	Val	275	280	285
Leu	Thr	Leu	Ser	Pro	Glu	Lys	Ala	Leu	Asn	Phe	Glu	Gly	Thr	Lys	Val	290	295	300

166

Thr Leu His Cys Glu Thr Gln Glu Asp Ser Leu Arg Thr Leu Tyr Arg
305 310 315 320

Phe Tyr His Glu Gly Val Pro Leu Arg His Lys Ser Val Arg Cys Glu
325 330 335

Arg Gly Ala Ser Ile Ser Phe Ser Leu Thr Thr Glu Asn Ser Gly Asn
340 345 350

Tyr Tyr Cys Thr Ala Asp Asn Gly Leu Gly Ala Lys Pro Ser Lys Ala
355 360 365

Val Ser Leu Ser Val Thr Val Pro Val Ser His Pro Val Leu Asn Leu
370 375 380

Ser Ser Pro Glu Asp Leu Ile Phe Glu Gly Ala Lys Val Thr Leu His
385 390 395 400

Cys Glu Ala Gln Arg Gly Ser Leu Pro Ile Leu Tyr Gln Phe His His
405 410 415

Glu Asp Ala Ala Leu Glu Arg Arg Ser Ala Asn Ser Ala Gly Gly Val
420 425 430

Ala Ile Ser Phe Ser Leu Thr Ala Glu His Ser Gly Asn Tyr Tyr Cys
435 440 445

Thr Ala Asp Asn Gly Phe Gly Pro Gln Arg Ser Lys Ala Val Ser Leu
450 455 460

Ser Ile Thr Val Pro Val Ser His Pro Val Leu Thr Leu Ser Ser Ala
465 470 475 480

Glu Ala Leu Thr Phe Glu Gly Ala Thr Val Thr Leu His Cys Glu Val
485 490 495

Gln Arg Gly Ser Pro Gln Ile Leu Tyr Gln Phe Tyr His Glu Asp Met
500 505 510

Pro Leu Trp Ser Ser Ser Thr Pro Ser Val Gly Arg Val Ser Phe Ser
515 520 525

Phe Ser Leu Thr Glu Gly His Ser Gly Asn Tyr Tyr Cys Thr Ala Asp
530 535 540

Asn Gly Phe Gly Pro Gln Arg Ser Glu Val Val Ser Leu Phe Val Thr
545 550 555 560

Val Pro Val Ser Arg Pro Ile Leu Thr Leu Arg Val Pro Arg Ala Gln
565 570 575

Ala Val Val Gly Asp Leu Leu Glu Leu His Cys Glu Ala Pro Arg Gly
580 585 590

Ser Pro Pro Ile Leu Tyr Trp Phe Tyr His Glu Asp Val Thr Leu Gly
595 600 605

Ser Ser Ser Ala Pro Ser Gly Gly Glu Ala Ser Phe Asn Leu Ser Leu
610 615 620

Thr Ala Glu His Ser Gly Asn Tyr Ser Cys Glu Ala Asn Asn Gly Leu
625 630 635 640

Val Ala Gln His Ser Asp Thr Ile Ser Leu Ser Val Ile Val Pro Val
645 650 655

Ser Arg Pro Ile Leu Thr Phe Arg Ala Pro Arg Ala Gln Ala Val Val
660 665 670

Gly Asp Leu Leu Glu Leu His Cys Glu Ala Leu Arg Gly Ser Ser Pro
675 680 685

Ile Leu Tyr Trp Phe Tyr His Glu Asp Val Thr Leu Gly Lys Ile Ser
690 695 700

Ala Pro Ser Gly Gly Gly Ala Ser Phe Asn Leu Ser Leu Thr Thr Glu
705 710 715 720

His Ser Gly Ile Tyr Ser Cys Glu Ala Asp Asn Gly Leu Glu Ala Gln
725 730 735

Arg Ser Glu Met Val Thr Leu Lys Val Ala Gly Glu Trp Ala Leu Pro
740 745 750

Thr Ser Ser Thr Ser Glu Asn
755

INFORMATION FOR SEQ ID NO:864:

(a) SEQUENCE CHARACTERISTICS:

<212> PRT

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:864:

Met Leu Leu Trp Val Ile Leu Leu Val Leu Ala Pro Val Ser Gly Gln
5 10 15

Phe Ala Arg Thr Pro Arg Pro Ile Ile Phe Leu Gln Pro Pro Trp Thr
20 25 30

Thr Val Phe Gln Gly Glu Arg Val Thr Leu Thr Cys Lys Gly Phe Arg
35 40 45

Phe Tyr Ser Pro Gln Lys Thr Lys Trp Tyr His Arg Tyr Leu Gly Lys
50 55 60

Glu Ile Leu Arg Glu Thr Pro Asp Asn Ile Leu Glu Val Gln Glu Ser
65 70 75 80

Gly Glu Tyr Arg Cys Gln Ala Gln Gly Ser Pro Leu Ser Ser Pro Val
85 90 95

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His	Leu	Asp	Phe	Ser	Ser	Ala	Ser	Leu	Ile	Leu	Gln	Ala	Pro	Leu	Ser	100	105	110
Val	Phe	Glu	Gly	Asp	Ser	Val	Val	Leu	Arg	Cys	Arg	Ala	Lys	Ala	Glu	115	120	125
Val	Thr	Leu	Asn	Asn	Thr	Ile	Tyr	Lys	Asn	Asp	Asn	Val	Leu	Ala	Phe	130	135	140
Leu	Asn	Lys	Arg	Thr	Asp	Phe	His	Ile	Pro	His	Ala	Cys	Leu	Lys	Asp	145	150	155
Asn	Gly	Ala	Tyr	Arg	Cys	Thr	Gly	Tyr	Lys	Glu	Ser	Cys	Cys	Pro	Val	165	170	175
Ser	Ser	Asn	Thr	Val	Lys	Ile	Gln	Val	Gln	Glu	Pro	Phe	Thr	Arg	Pro	180	185	190
Val	Leu	Arg	Ala	Ser	Ser	Phe	Gln	Pro	Ile	Ser	Gly	Asn	Pro	Val	Thr	195	200	205
Leu	Thr	Cys	Glu	Thr	Gln	Leu	Ser	Leu	Glu	Arg	Ser	Asp	Val	Pro	Leu	210	215	220
Arg	Phe	Arg	Phe	Phe	Arg	Asp	Asp	Gln	Thr	Leu	Gly	Leu	Gly	Trp	Ser	225	230	235
Leu	Ser	Pro	Asn	Phe	Gln	Ile	Thr	Ala	Met	Trp	Ser	Lys	Asp	Ser	Gly	245	250	255
Phe	Tyr	Trp	Cys	Lys	Ala	Ala	Thr	Met	Pro	His	Ser	Val	Ile	Ser	Asp	260	265	270
Ser	Pro	Arg	Ser	Trp	Ile	Gln	Val	Gln	Ile	Pro	Ala	Ser	His	Pro	Val	275	280	285
Leu	Thr	Leu	Ser	Pro	Glu	Lys	Ala	Leu	Asn	Phe	Glu	Gly	Thr	Lys	Val	290	295	300
Thr	Leu	His	Cys	Glu	Thr	Gln	Glu	Asp	Ser	Leu	Arg	Thr	Leu	Tyr	Arg	305	310	315
Phe	Tyr	His	Glu	Gly	Val	Pro	Leu	Arg	His	Lys	Ser	Val	Arg	Cys	Glu	325	330	335
Arg	Gly	Ala	Ser	Ile	Ser	Phe	Ser	Leu	Thr	Thr	Glu	Asn	Ser	Gly	Asn	340	345	350
Tyr	Tyr	Cys	Thr	Ala	Asp	Asn	Gly	Leu	Gly	Ala	Lys	Pro	Ser	Lys	Ala	355	360	365
Val	Ser	Leu	Ser	Val	Thr	Val	Pro	Val	Ser	His	Pro	Val	Leu	Asn	Leu	370	375	380
Ser	Ser	Pro	Glu	Asp	Leu	Ile	Phe	Glu	Gly	Ala	Lys	Val	Thr	Leu	His	385	390	395

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Cys Glu Ala Gln Arg Gly Ser Leu Pro Ile Leu Tyr Gln Phe His His
405 410 415

Glu Asp Ala Ala Leu Glu Arg Arg Ser Ala Asn Ser Ala Gly Gly Val
420 425 430

Ala Ile Ser Phe Ser Leu Thr Ala Glu His Ser Gly Asn Tyr Tyr Cys
435 440 445

Thr Ala Asp Asn Gly Phe Gly Pro Gln Arg Ser Lys Ala Val Ser Leu
450 455 460

Ser Ile Thr Val Pro Val Ser His Pro Val Leu Thr Leu Ser Ser Ala
465 470 475 480

Glu Ala Leu Thr Phe Glu Gly Ala Thr Val Thr Leu His Cys Glu Val
485 490 495

Gln Arg Gly Ser Pro Gln Ile Leu Tyr Gln Phe Tyr His Glu Asp Met
500 505 510

Pro Leu Trp Ser Ser Ser Thr Pro Ser Val Gly Arg Val Ser Phe Ser
515 520 525

Phe Ser Leu Thr Glu Gly His Ser Gly Asn Tyr Tyr Cys Thr Ala Asp
530 535 540

Asn Gly Phe Gly Pro Gln Arg Ser Glu Val Val Ser Leu Phe Val Thr
545 550 555 560

Gly Lys Cys Trp Val Leu Ala Ser His Pro Pro Leu Ala Glu Phe Ser
565 570 575

Leu Thr His Ser Phe Lys Asn Leu Phe Ala Leu Ser Ser Phe Leu Pro
580 585 590

INFORMATION FOR SEQ ID NO:865:

(a) SEQUENCE CHARACTERISTICS:
<212> PRT
<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:865:

Met Leu Leu Trp Val Ile Leu Leu Val Leu Ala Pro Val Ser Gly Gln
5 10 15

Phe Ala Arg Thr Pro Arg Pro Ile Ile Phe Leu Gln Pro Pro Trp Thr
20 25 30

Thr Val Phe Gln Gly Glu Arg Val Thr Leu Thr Cys Lys Gly Phe Arg
35 40 45

Phe Tyr Ser Pro Gln Lys Thr Lys Trp Tyr His Arg Tyr Leu Gly Lys
50 55 60

Glu Ile Leu Arg Glu Thr Pro Asp Asn Ile Leu Glu Val Gln Glu Ser

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65		70		75		80									
Gly	Glu	Tyr	Arg	Cys	Gln	Ala	Gln	Gly	Ser	Pro	Leu	Ser	Ser	Pro	Val
				85					90					95	
His	Leu	Asp	Phe	Ser	Ser	Ala	Ser	Leu	Ile	Leu	Gln	Ala	Pro	Leu	Ser
			100					105					110		
Val	Phe	Glu	Gly	Asp	Ser	Val	Val	Leu	Arg	Cys	Arg	Ala	Lys	Ala	Glu
		115					120					125			
Val	Thr	Leu	Asn	Asn	Thr	Ile	Tyr	Lys	Asn	Asp	Asn	Val	Leu	Ala	Phe
		130				135					140				
Leu	Asn	Lys	Arg	Thr	Asp	Phe	His	Ile	Pro	His	Ala	Cys	Leu	Lys	Asp
145					150					155					160
Asn	Gly	Ala	Tyr	Arg	Cys	Thr	Gly	Tyr	Lys	Glu	Ser	Cys	Cys	Pro	Val
			165						170					175	
Ser	Ser	Asn	Thr	Val	Lys	Ile	Gln	Val	Gln	Glu	Pro	Phe	Thr	Arg	Pro
			180					185					190		
Val	Leu	Arg	Ala	Ser	Ser	Phe	Gln	Pro	Ile	Ser	Gly	Asn	Pro	Val	Thr
		195					200					205			
Leu	Thr	Cys	Glu	Thr	Gln	Leu	Ser	Leu	Glu	Arg	Ser	Asp	Val	Pro	Leu
	210					215					220				
Arg	Phe	Arg	Phe	Phe	Arg	Asp	Asp	Gln	Thr	Leu	Gly	Leu	Gly	Trp	Ser
225					230					235					240
Leu	Ser	Pro	Asn	Phe	Gln	Ile	Thr	Ala	Met	Trp	Ser	Lys	Asp	Ser	Gly
			245						250					255	
Phe	Tyr	Trp	Cys	Lys	Ala	Ala	Thr	Met	Pro	His	Ser	Val	Ile	Ser	Asp
			260					265					270		
Ser	Pro	Arg	Ser	Trp	Ile	Gln	Val	Gln	Ile	Pro	Ala	Ser	His	Pro	Val
		275				280						285			
Leu	Thr	Leu	Ser	Pro	Glu	Lys	Ala	Leu	Asn	Phe	Glu	Gly	Thr	Lys	Val
	290					295					300				
Thr	Leu	His	Cys	Glu	Thr	Gln	Glu	Asp	Ser	Leu	Arg	Thr	Leu	Tyr	Arg
305					310					315					320
Phe	Tyr	His	Glu	Gly	Val	Pro	Leu	Arg	His	Lys	Ser	Val	Arg	Cys	Glu
			325						330					335	
Arg	Gly	Ala	Ser	Ile	Ser	Phe	Ser	Leu	Thr	Thr	Glu	Asn	Ser	Gly	Asn
		340						345					350		
Tyr	Tyr	Cys	Thr	Ala	Asp	Asn	Gly	Leu	Gly	Ala	Lys	Pro	Ser	Lys	Ala
		355					360					365			
Val	Ser	Leu	Ser	Val	Thr	Val	Pro	Val	Ser	His	Pro	Val	Leu	Asn	Leu

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370	375	380
Ser Ser Pro Glu Asp Leu Ile Phe Glu Gly Ala Lys Val Thr Leu His 385 390 395 400		
Cys Glu Ala Gln Arg Gly Ser Leu Pro Ile Leu Tyr Gln Phe His His 405 410 415		
Glu Asp Ala Ala Leu Glu Arg Arg Ser Ala Asn Ser Ala Gly Gly Val 420 425 430		
Ala Ile Ser Phe Ser Leu Thr Ala Glu His Ser Gly Asn Tyr Tyr Cys 435 440 445		
Thr Ala Asp Asn Gly Phe Gly Pro Gln Arg Ser Lys Ala Val Ser Leu 450 455 460		
Ser Ile Thr Val Pro Val Ser His Pro Val Leu Thr Leu Ser Ser Ala 465 470 475 480		
Glu Ala Leu Thr Phe Glu Gly Ala Thr Val Thr Leu His Cys Glu Val 485 490 495		
Gln Arg Gly Ser Pro Gln Ile Leu Tyr Gln Phe Tyr His Glu Asp Met 500 505 510		
Pro Leu Trp Ser Ser Ser Thr Pro Ser Val Gly Arg Val Ser Phe Ser 515 520 525		
Phe Ser Leu Thr Glu Gly His Ser Gly Asn Tyr Tyr Cys Thr Ala Asp 530 535 540		
Asn Gly Phe Gly Pro Gln Arg Ser Glu Val Val Ser Leu Phe Val Thr 545 550 555 560		
Val Pro Val Ser Arg Pro Ile Leu Thr Leu Arg Val Pro Arg Ala Gln 565 570 575		
Ala Val Val Gly Asp Leu Leu Glu Leu His Cys Glu Ala Pro Arg Gly 580 585 590		
Ser Pro Pro Ile Leu Tyr Trp Phe Tyr His Glu Asp Val Thr Leu Gly 595 600 605		
Ser Ser Ser Ala Pro Ser Gly Gly Glu Ala Ser Phe Asn Leu Ser Leu 610 615 620		
Thr Ala Glu His Ser Gly Asn Tyr Ser Cys Glu Ala Asn Asn Gly Leu 625 630 635 640		
Val Ala Gln His Ser Asp Thr Ile Ser Leu Ser Val Ile Val Pro Val 645 650 655		
Ser Arg Pro Ile Leu Thr Phe Arg Ala Pro Arg Ala Gln Ala Val Val 660 665 670		
Gly Asp Leu Leu Glu Leu His Cys Glu Ala Leu Arg Gly Ser Ser Pro		

675	680	685
Ile Leu Tyr Trp Phe Tyr His Glu Asp Val Thr Leu Gly Lys Ile Ser 690 695 700		
Ala Pro Ser Gly Gly Gly Ala Ser Phe Asn Leu Ser Leu Thr Thr Glu 705 710 715 720		
His Ser Gly Ile Tyr Ser Cys Glu Ala Asp Asn Gly Leu Glu Ala Gln 725 730 735		
Arg Ser Glu Met Val Thr Leu Lys Val Ala Val Pro Val Ser Arg Pro 740 745 750		
Val Leu Thr Leu Arg Ala Pro Gly Thr His Ala Ala Val Gly Asp Leu 755 760 765		
Leu Glu Leu His Cys Glu Ala Leu Arg Gly Ser Pro Leu Ile Leu Tyr 770 775 780		
Arg Phe Phe His Glu Asp Val Thr Leu Gly Asn Arg Ser Ser Pro Ser 785 790 795 800		
Gly Gly Ala Ser Leu Asn Leu Ser Leu Thr Ala Glu His Ser Gly Asn 805 810 815		
Tyr Ser Cys Glu Ala Asp Asn Gly Leu Gly Ala Gln Arg Ser Glu Thr 820 825 830		
Val Thr Leu Tyr Ile Thr Gly Leu Thr Ala Asn Arg Ser Gly Pro Phe 835 840 845		
Ala Thr Gly Val Ala Gly Gly Leu Leu Ser Ile Ala Gly Leu Ala Ala 850 855 860		
Gly Ala Leu Leu Leu Tyr Cys Trp Leu Ser Arg Lys Ala Gly Arg Lys 865 870 875 880		
Pro Ala Ser Asp Pro Ala Arg Ser Pro Ser Asp Ser Asp Ser Gln Glu 885 890 895		
Pro Thr Tyr His Asn Val Pro Ala Trp Glu Glu Leu Gln Pro Val Tyr 900 905 910		
Thr Asn Ala Asn Pro Arg Gly Glu Asn Val Val Tyr Ser Glu Val Arg 915 920 925		
Ile Ile Gln Glu Lys Lys Lys His Ala Val Ala Ser Asp Pro Arg His 930 935 940		
Leu Arg Asn Lys Gly Ser Pro Ile Ile Tyr Ser Glu Val Lys Val Ala 945 950 955 960		
Ser Thr Pro Val Ser Gly Ser Leu Phe Leu Ala Ser Ser Ala Pro His 965 970 975		
Arg		

INFORMATION FOR SEQ ID NO:866:

(a) SEQUENCE CHARACTERISTICS:

<212> PRT

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:866:

Met Leu Leu Trp Leu Leu Leu Leu Ile Leu Thr Pro Gly Arg Glu Gln
5 10 15

Ser Gly Val Ala Pro Lys Ala Val Leu Leu Leu Asn Pro Pro Trp Ser
20 25 30

Thr Ala Phe Lys Gly Glu Lys Val Ala Leu Ile Cys Ser Ser Ile Ser
35 40 45

His Ser Leu Ala Gln Gly Asp Thr Tyr Trp Tyr His Asp Glu Lys Leu
50 55 60

Leu Lys Ile Lys His Asp Lys Ile Gln Ile Thr Glu Pro Gly Asn Tyr
65 70 75 80

Gln Cys Lys Thr Arg Gly Ser Ser Leu Ser Asp Ala Val His Val Glu
85 90 95

Phe Ser Pro Asp Trp Leu Ile Leu Gln Ala Leu His Pro Val Phe Glu
100 105 110

Gly Asp Asn Val Ile Leu Arg Cys Gln Gly Lys Asp Asn Lys Asn Thr
115 120 125

His Gln Lys Val Tyr Tyr Lys Asp Gly Lys Gln Leu Pro Asn Ser Tyr
130 135 140

Asn Leu Glu Lys Ile Thr Val Asn Ser Val Ser Arg Asp Asn Ser Lys
145 150 155 160

Tyr His Cys Thr Ala Tyr Arg Lys Phe Tyr Ile Leu Asp Ile Glu Val
165 170 175

Thr Ser Lys Pro Leu Asn Ile Gln Val Gln Glu Leu Phe Leu His Pro
180 185 190

Val Leu Arg Ala Ser Ser Ser Thr Pro Ile Glu Gly Ser Pro Met Thr
195 200 205

Leu Thr Cys Glu Thr Gln Leu Ser Pro Gln Arg Pro Asp Val Gln Leu
210 215 220

Gln Phe Ser Leu Phe Arg Asp Ser Gln Thr Leu Gly Leu Gly Trp Ser
225 230 235 240

Arg Ser Pro Arg Leu Gln Ile Pro Ala Met Trp Thr Glu Asp Ser Gly
245 250 255

144

Ser Tyr Trp Cys Glu Val Glu Thr Val Thr His Ser Ile Lys Lys Arg
 260 265 270
 Ser Leu Arg Ser Gln Ile Arg Val Gln Arg Val Pro Val Ser Asn Val
 275 280 285
 Asn Leu Glu Ile Arg Pro Thr Gly Gly Gln Leu Ile Glu Gly Glu Asn
 290 295 300
 Met Val Leu Ile Cys Ser Val Ala Gln Gly Ser Gly Thr Val Thr Phe
 305 310 315 320
 Ser Trp His Lys Glu Gly Arg Val Arg Ser Leu Gly Arg Lys Thr Gln
 325 330 335
 Arg Ser Leu Leu Ala Glu Leu His Val Leu Thr Val Lys Glu Ser Asp
 340 345 350
 Ala Gly Arg Tyr Tyr Cys Ala Ala Asp Asn Val His Ser Pro Ile Leu
 355 360 365
 Ser Thr Trp Ile Arg Val Thr Val Arg Ile Pro Val Ser His Pro Val
 370 375 380
 Leu Thr Phe Arg Ala Pro Arg Ala His Thr Val Val Gly Asp Leu Leu
 385 390 395 400
 Glu Leu His Cys Glu Ser Leu Arg Gly Ser Pro Pro Ile Leu Tyr Arg
 405 410 415
 Phe Tyr His Glu Asp Val Thr Leu Gly Asn Ser Ser Ala Pro Ser Gly
 420 425 430
 Gly Gly Ala Ser Phe Asn Leu Ser Leu Thr Ala Glu His Ser Gly Asn
 435 440 445
 Tyr Ser Cys Asp Ala Asp Asn Gly Leu Gly Ala Gln His Ser His Gly
 450 455 460
 Val Ser Leu Arg Val Thr Val Pro Val Ser Arg Pro Val Leu Thr Leu
 465 470 475 480
 Arg Ala Pro Gly Ala Gln Ala Val Val Gly Asp Leu Leu Glu Leu His
 485 490 495
 Cys Glu Ser Leu Arg Gly Ser Phe Pro Ile Leu Tyr Trp Phe Tyr His
 500 505 510
 Glu Asp Asp Thr Leu Gly Asn Ile Ser Ala His Ser Gly Gly Gly Ala
 515 520 525
 Ser Phe Asn Leu Ser Leu Thr Thr Glu His Ser Gly Asn Tyr Ser Cys
 530 535 540
 Glu Ala Asp Asn Gly Leu Gly Ala Gln His Ser Lys Val Val Thr Leu
 545 550 555 560

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Asn Val Thr Gly Thr Ser Arg Asn Arg Thr Gly Leu Thr Ala Ala Gly
565 570 575

Ile Thr Gly Leu Val Leu Ser Ile Leu Val Leu Ala Ala Ala Ala Ala
580 585 590

Leu Leu His Tyr Ala Arg Ala Arg Arg Lys Pro Gly Gly Leu Ser Ala
595 600 605

Thr Gly Thr Ser Ser His Ser Pro Ser Glu Cys Gln Glu Pro Ser Ser
610 615 620

Ser Arg Pro Ser Arg Ile Asp Pro Gln Glu Pro Thr His Ser Lys Pro
625 630 635 640

Leu Ala Pro Met Glu Leu Glu Pro Met Tyr Ser Asn Val Asn Pro Gly
645 650 655

Asp Ser Asn Pro Ile Tyr Ser Gln Ile Trp Ser Ile Gln His Thr Lys
660 665 670

Glu Asn Ser Ala Asn Cys Pro Met Met His Gln Glu His Glu Glu Leu
675 680 685

Thr Val Leu Tyr Ser Glu Leu Lys Lys Thr His Pro Asp Asp Ser Ala
690 695 700

Gly Glu Ala Ser Ser Arg Gly Arg Ala His Glu Glu Asp Asp Glu Glu
705 710 715 720

Asn Tyr Glu Asn Val Pro Arg Val Leu Leu Ala Ser Asp His
725 730

INFORMATION FOR SEQ ID NO:867:

(a) SEQUENCE CHARACTERISTICS:

<212> PRT

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:867:

Met Leu Leu Trp Ser Leu Leu Val Ile Phe Asp Ala Val Thr Glu Gln
5 10 15

Ala Asp Ser Leu Thr Leu Val Ala Pro Ser Ser Val Phe Glu Gly Asp
20 25 30

Ser Ile Val Leu Lys Cys Gln Gly Glu Gln Asn Trp Lys Ile Gln Lys
35 40 45

Met Ala Tyr His Lys Asp Asn Lys Glu Leu Ser Val Phe Lys Lys Phe
50 55 60

Ser Asp Phe Leu Ile Gln Ser Ala Val Leu Ser Asp Ser Gly Asn Tyr
65 70 75 80

Phe Cys Ser Thr Lys Gly Gln Leu Phe Leu Trp Asp Lys Thr Ser Asn

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85										90										95									
Ile	Val	Lys	Ile	Lys	Val	Gln	Glu	Leu	Phe	Gln	Arg	Pro	Val	Leu	Thr														
100										105										110									
Ala	Ser	Ser	Phe	Gln	Pro	Ile	Glu	Gly	Gly	Pro	Val	Ser	Leu	Lys	Cys														
115										120										125									
Glu	Thr	Arg	Leu	Ser	Pro	Gln	Arg	Leu	Asp	Val	Gln	Leu	Gln	Phe	Cys														
130										135										140									
Phe	Phe	Arg	Glu	Asn	Gln	Val	Leu	Gly	Ser	Gly	Trp	Ser	Ser	Ser	Pro														
145										150										155									
Glu	Leu	Gln	Ile	Ser	Ala	Val	Trp	Ser	Glu	Asp	Thr	Gly	Ser	Tyr	Trp														
165										170										175									
Cys	Lys	Ala	Glu	Thr	Val	Thr	His	Arg	Ile	Arg	Lys	Gln	Ser	Leu	Gln														
180										185										190									
Ser	Gln	Ile	His	Val	Gln	Arg	Ile	Pro	Ile	Ser	Asn	Val	Ser	Leu	Glu														
195										200										205									
Ile	Arg	Ala	Pro	Gly	Gly	Gln	Val	Thr	Glu	Gly	Gln	Lys	Leu	Ile	Leu														
210										215										220									
Leu	Cys	Ser	Val	Ala	Gly	Gly	Thr	Gly	Asn	Val	Thr	Phe	Ser	Trp	Tyr														
225										230										235									
Arg	Glu	Ala	Thr	Gly	Thr	Ser	Met	Gly	Lys	Lys	Thr	Gln	Arg	Ser	Leu														
245										250										255									
Ser	Ala	Glu	Leu	Glu	Ile	Pro	Ala	Val	Lys	Glu	Ser	Asp	Ala	Gly	Lys														
260										265										270									
Tyr	Tyr	Cys	Arg	Ala	Asp	Asn	Gly	His	Val	Pro	Ile	Gln	Ser	Lys	Val														
275										280										285									
Val	Asn	Ile	Pro	Val	Arg	Ile	Pro	Val	Ser	Arg	Pro	Val	Leu	Thr	Leu														
290										295										300									
Arg	Ser	Pro	Gly	Ala	Gln	Ala	Ala	Val	Gly	Asp	Leu	Leu	Glu	Leu	His														
305										310										315									
Cys	Glu	Ala	Leu	Arg	Gly	Ser	Pro	Pro	Ile	Leu	Tyr	Gln	Phe	Tyr	His														
325										330										335									
Glu	Asp	Val	Thr	Leu	Gly	Asn	Ser	Ser	Ala	Pro	Ser	Gly	Gly	Gly	Ala														
340										345										350									
Ser	Phe	Asn	Leu	Ser	Leu	Thr	Ala	Glu	His	Ser	Gly	Asn	Tyr	Ser	Cys														
355										360										365									
Glu	Ala	Asn	Asn	Gly	Leu	Gly	Ala	Gln	Cys	Ser	Glu	Ala	Val	Pro	Val														
370										375										380									
Ser	Ile	Ser	Gly	Pro	Asp	Gly	Tyr	Arg	Arg	Asp	Leu	Met	Thr	Ala	Gly														

177

385 390 395 400

Val Leu Trp Gly Leu Phe Gly Val Leu Gly Phe Thr Gly Val Ala Leu
 405 410 415

Leu Leu Tyr Ala Leu Phe His Lys Ile Ser Gly Glu Ser Ser Ala Thr
 420 425 430

Asn Glu Pro Arg Gly Ala Ser Arg Pro Asn Pro Gln Glu Phe Thr Tyr
 435 440 445

Ser Ser Pro Thr Pro Asp Met Glu Glu Leu Gln Pro Val Tyr Val Asn
 450 455 460

Val Gly Ser Val Asp Val Asp Val Val Tyr Ser Gln Val Trp Ser Met
 465 470 475 480

Gln Gln Pro Glu Ser Ser Ala Asn Ile Arg Thr Leu Leu Glu Asn Lys
 485 490 495

Asp Ser Gln Val Ile Tyr Ser Ser Val Lys Lys Ser
 500 505

INFORMATION FOR SEQ ID NO:868:

(a) SEQUENCE CHARACTERISTICS:

<212> PRT

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:868:

Met Leu Pro Arg Leu Leu Leu Leu Ile Cys Ala Pro Leu Cys Glu Pro
 5 10 15

Ala Glu Leu Phe Leu Ile Ala Ser Pro Ser His Pro Thr Glu Gly Ser
 20 25 30

Pro Val Thr Leu Thr Cys Lys Met Pro Phe Leu Gln Ser Ser Asp Ala
 35 40 45

Gln Phe Gln Phe Cys Phe Phe Arg Asp Thr Arg Ala Leu Gly Pro Gly
 50 55 60

Trp Ser Ser Ser Pro Lys Leu Gln Ile Ala Ala Met Trp Lys Glu Asp
 65 70 75 80

Thr Gly Ser Tyr Trp Cys Glu Ala Gln Thr Met Ala Ser Lys Val Leu
 85 90 95

Arg Ser Arg Arg Ser Gln Ile Asn Val His Arg Val Pro Val Ala Asp
 100 105 110

Val Ser Leu Glu Thr Gln Pro Pro Gly Gly Gln Val Met Glu Gly Asp
 115 120 125

Arg Leu Val Leu Ile Cys Ser Val Ala Met Gly Thr Gly Asp Ile Thr
 130 135 140

Phe Leu Trp Tyr Lys Gly Ala Val Gly Leu Asn Leu Gln Ser Lys Thr
 145 150 155 160
 Gln Arg Ser Leu Thr Ala Glu Tyr Glu Ile Pro Ser Val Arg Glu Ser
 165 170 175
 Asp Ala Glu Gln Tyr Tyr Cys Val Ala Glu Asn Gly Tyr Gly Pro Ser
 180 185 190
 Pro Ser Gly Leu Val Ser Ile Thr Val Arg Ile Pro Val Ser Arg Pro
 195 200 205
 Ile Leu Met Leu Arg Ala Pro Arg Ala Gln Ala Ala Val Glu Asp Val
 210 215 220
 Leu Glu Leu His Cys Glu Ala Leu Arg Gly Ser Pro Pro Ile Leu Tyr
 225 230 235 240
 Trp Phe Tyr His Glu Asp Ile Thr Leu Gly Ser Arg Ser Ala Pro Ser
 245 250 255
 Gly Gly Gly Ala Ser Phe Asn Leu Ser Leu Thr Glu Glu His Ser Gly
 260 265 270
 Asn Tyr Ser Cys Glu Ala Asn Asn Gly Leu Gly Ala Gln Arg Ser Glu
 275 280 285
 Ala Val Thr Leu Asn Phe Thr Val Pro Thr Gly Ala Arg Ser Asn His
 290 295 300
 Leu Thr Ser Gly Val Ile Glu Gly Leu Leu Ser Thr Leu Gly Pro Ala
 305 310 315 320
 Thr Val Ala Leu Leu Phe Cys Tyr Gly Leu Lys Arg Lys Ile Gly Arg
 325 330 335
 Arg Ser Ala Arg Asp Pro Leu Arg Ser Leu Pro Ser Pro Leu Pro Gln
 340 345 350
 Glu Phe Thr Tyr Leu Asn Ser Pro Thr Pro Gly Gln Leu Gln Pro Ile
 355 360 365
 Tyr Glu Asn Val Asn Val Val Ser Gly Asp Glu Val Tyr Ser Leu Ala
 370 375 380
 Tyr Tyr Asn Gln Pro Glu Gln Glu Ser Val Ala Ala Glu Thr Leu Gly
 385 390 395 400
 Thr His Met Glu Asp Lys Val Ser Leu Asp Ile Tyr Ser Arg Leu Arg
 405 410 415
 Lys Ala Asn Ile Thr Asp Val Asp Tyr Glu Asp Ala Met
 420 425

INFORMATION FOR SEQ ID NO:869:

(a) SEQUENCE CHARACTERISTICS:

<212> PRT

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:869:

Asp Asn Val His Ser Pro Ile Leu Ser Thr Trp Ile Arg Val Thr Val
5 10 15
Arg Ile Pro Val Ser His Pro Val Leu Thr Phe Arg Ala Pro Arg Ala
20 25 30
His Thr Val Val Gly Asp Leu Leu Glu Leu His Cys Glu Ser Leu Arg
35 40 45
Gly Ser Pro Pro Ile Leu Tyr Arg Phe Tyr His Glu Asp Val Thr Leu
50 55 60
Gly Asn Ser Ser Ala Pro Ser Gly Gly Gly Ala Ser Phe Asn Leu Ser
65 70 75 80
Leu Thr Ala Glu His Ser Gly Asn Tyr Ser Cys Asp Ala Asp Asn Gly
85 90 95
Leu Gly Ala Gln His Ser His Gly Val Ser Leu Arg Val Thr Val Pro
100 105 110
Val Ser Arg Pro Val Leu Thr Leu Arg Ala Pro Gly Ala Gln Ala Val
115 120 125
Val Gly Asp Pro Leu Glu Leu His Cys Glu Ser Leu Arg Gly Ser Phe
130 135 140
Pro Ile Leu Tyr Trp Phe Tyr His Glu Asp Asp Thr Leu Gly Asn Ile
145 150 155 160
Ser Ala His Ser Gly Gly Gly Ala Ser Phe Asn Leu Ser Leu Thr Thr
165 170 175
Glu His Ser Gly Asn Tyr Ser Cys Glu Ala Asp Asn Gly Leu Gly Ala
180 185 190
Gln His Ser Lys Val Val Thr Leu Asn Val Thr Gly Thr Ser Arg Asn
195 200 205
Arg Thr Gly Leu Thr Xaa Ala Gly Ile Thr Gly Leu Val Xaa Xaa Ile
210 215 220
Xaa Val Leu Xaa Ala Ala Ala Ala Leu Leu His Tyr Ala Arg Ala Arg
225 230 235 240
Arg Lys Pro Gly Gly Leu Ser Ala Thr Gly Thr Ser Ser His Ser Pro
245 250 255
Ser Glu Cys Gln Glu Pro Ser Ser Ser Arg
260 265
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